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	4 2			3 1			3 3 1 1		3 1	3 1	2			2 2		1	3 1	3 1	0	3	3 1	3 1	1	1 0	1 0	1 0	Alpha-mannanase/mannosidase/GDE Alpha-mannanase/mannosidase/GDE	a-fungal a-fungal
GH76 GH92	6 7		7	7	7	5 1	7 7 0 0	7	7	6				5 7		3	6	6	5	5	6	5 1	0	6	4 0	4 0	Alpha-mannanase/mannosidase/GDE Alpha-mannanase/mannosidase/GDE	a-fungal a-fungal
GT71 GH128	0 (			0			0 0		0	0				1 (		0	1	2	0	0	0	0	0	0	0	0	Alpha-mannosyltransferase Beta-glucanases	a-fungal a-fungal
GH131	3 3	3	3	3	3	3	3 3	3	3	3	3	3	3	3 2		1	0	0	0	1 2	1	1	0	0	0	0	Beta-glucanases	a-fungal
GH16	13 1	2 12	2 11	13	12	12 1	12 1:	2 12	13	12	13	11 1	12	9 1	0 12	6	8	8	8	8	7	8	7	7	7	7	Beta-glucanases Beta-glucanases	a-fungal a-fungal
GH17 GH55	1 1	5 5				0	0 0		0	5	5		4	1 2	2 0	0	2	5	5	0	3	1	1	2	3	0	Beta-glucanases Beta-glucanases	a-fungal a-fungal
GH64 GH72	1 1		1	1			0 2		1	1	1		1 :	1 1		1	1	1	0	1	1	1	0	0		0	Beta-glucanases Beta-glucanases	a-fungal a-fungal
GH81 CBM52	0 (		0	0	0		0 0	0	0	0	0			) (		0	0	0	0	0	0	0	0	0	0	0	Beta-glucanases Binding beta-glucans	a-fungal
CBM18	1 1	1	1		1	0	1 0	1	1	1	1	2	1 :	2 1	1	0	0	0	0	0	0	0	0	0	0	0	Binds chitin	a-fungal a-fungal
	12 1 1 2	4 14		2			7 1: 1 2		10 2	10			6 i	2 (		5 1	6 1	6 1	6 0	5 1	1	0	1	2	1	2	Chitinases Chitinases	a-fungal a-fungal
GT69 GT90	0 0		0	0			0 0	0	0	0			0	) 1 1 1		1	0	0	1	0	1	0	0	1		0	GXM biosynthesis / Alpha–mannosyltransferase GXM biosynthesis / O–linked glycosylation	a-fungal a-fungal
GH53 GH93	1 1 2 2	1	1	1 2	1		0 1	1	0	1	1	1	1 2	1 (		1	0	0	0	0	0	0	0	0		0	Arabinogalactanases Arabinogalactanases	b-plant b-plant
GH3	9 9	9	7	7	7	8	6 6	6	7	5	6	7	5	3 5	5	2	4	4	3	4	3	3	3	2	1	1	Beta-glucosidases/Beta-xylosidases	b-plant
CBM66	0 0			0			0 0		0	0				) (		0	0	1	0	0	0	0		0	0	0	Binding cellulose, xylans, beta-glucans Binding fructans	b-plant b-plant
CBM42 CBM91	1 1		1	1	1	-	0 0	0	0	0			0	1 1		0	0	0	0	0	1	0	0	0		0	Binding other hemicelluloses Binding xylans	b-plant b-plant
CBM38 CBM20	1 1		0	0	·		1 0		0	1			0	1 3		0	0	0	0	0	0	0	0	0	0	0	Binds inulin Binds starch	b-plant b-plant
GH12	1 1	1	1	1	1	0	0 0	1	1 2	1	1	2	1 (	) (	0	1	1	0	2	2	0	0	1	0	0	1	Cellulases	b-plant
GH45 GH6	1 1	1	1	1	1	1	1 0	1	1	1	1	1		1 1	1	0	0	0	0	0	0	1	0	0	0	0	Cellulases Cellulases	b-plant b-plant
GH7 AA3	5 4						5 4 6 6		5	4 5			5	1 2 5 2		1	1	1	0	0	0	0	0	0	0	0	Cellulases Lignocellulases	b-plant b-plant
CE1 CE12	6 8		8	8			7 6 1 1	7	5	3			3 -	1 2		0	0	0	0	0	0	1	0	0	0	0	Other hemicellulases Other hemicellulases	b-plant b-plant
CE15	3 3	3	3	3	3	3	3 3	3	2	2	2	2	1	3 1	2	0	0	0	0	0	0	0	0	0	0	0	Other hemicellulases	b-plant
CE3	1 2 2	2 3	3		2	3	1 0	1		0	1	2	1 :	3 (	0	2	0	0	0	0	1	0	0	0	0	0	Other hemicellulases Other hemicellulases	b-plant b-plant
	1 1						2 2		2	3				2 1 2 1		1	1	0	0	0	0	1	0	0		0	Other hemicellulases Other hemicellulases	b-plant b-plant
GH2 GH27	2 2				2		2 2		2	2				3 1		1	0	0	0	0	1	0	0	0		0	Other hemicellulases Other hemicellulases	b-plant b-plant
GH35	2 2	2		1	1	0	1 2	1	2	1	1	2	0	1 2	2 0	0	0	0	1	0	1	0	0	0	0	0	Other hemicellulases	b-plant
GH51 GH54	0 (	1	- 1	-	-		0 0					0		) (		0					1	0		0	0		Other hemicellulases Other hemicellulases	b-plant b-plant
GH62 CE8	1 1	1	4	3	2	5	1 0	0	1	2	2	0	2	) (	0 2	2	0	0	0	2	0	2	0	0	0	0	Other hemicellulases Pectinases	b-plant b-plant
GH106 GH28	_					_	2 2 3 3	_		1			3 :			_	-	0	0	0	0	1	0	0	0	0	Pectinases Pectinases	b-plant b-plant
GH78 PL42	1 2					2	0 1					1		2 1				0	0	1	0	0	1	0	1		Pectinases Pectinases	b-plant b-plant
GH10	2 2	2	2	2	2	2	2 2	2	2	2	2	2	2	2 1	2	0	1	0	0	0	0	0	0	0	0	0	Xylanases/xyloglucanases	b-plant
GH11 GH115	3 3 2 2				2				1	1	3		3 :	2 1			1	1	0	0	1	1	0	0	0	0	Xylanases/xyloglucanases Xylanases/xyloglucanases	b-plant b-plant
GH141 GH67	0 0					1	0 0		0				0	) (				0	0	0	0	0	0		0	0	Xylanases/xyloglucanases Xylanases/xyloglucanases	b-plant b-plant
CE16 GH29	2 3						3 2						2 :	2 1		0	1	2	1	1	1	2		1	1	2	Acetylesterase Alpha–fucosidases	nd nd
GH135	1 1	1	1	1	1	1	1 1	1	1	1	1	1	1	) (	1	1	1	1	1	0	0	1	0	0	0	0	Alpha-galactosaminogalactanase/GDE	nd
GT8 GH13	1 (						0 0		1	1			1			1	1	1	1	1		0			0	0	Alpha-galactosyltransferase Alpha-glucanases	nd nd
GH15 GH171	3 3					0	4 3 0 0		0	0			0			1		0	0	2		1		0		0	Alpha-glucanases Alpha-glucanases	nd nd
GH31 GH37	3 2		2	3			2 2		3	2				2 2			2	2	2	1	2	2	2	2	2		Alpha-glucanases Alpha-glucanases	nd nd
GH49 GH71	0 0		0	0			0 0	0	1	1		0	0		0	0		0	0	0		0	0	0	0	0	Alpha-glucanases Alpha-glucanases	nd nd
GH32	1 1	1	0	0	0	0	0 0	0	0	1	0	0	0	) 2	2 0	0	0	0	0	0	1	0	0	0	0	0	Beta-fucosidases/fructosyltransferases	nd
GH79 CBM24	0 1						0 0					3			0 0			0			0		0	0	0		Beta-glucuronidase/GDE Binds alpha-glucan	nd nd
CBM32 GH33	1 1 2 2		1	0	2		1 0		0	1		0	0				1	1	0	0		0			0	0	Binds galactose and lactose GDE	nd nd
GH59 AA7	0 1					_	1 0		-				0 8				0	0	0	0	0	0	0	0	0	0	GDE Glucooligosaccharide oxidases (GOO)	nd nd
AA8	8 8	9	8	8	8	8	8 8	8	8	8	8	7	7	5 2	5	0	1	2	0	0	0	1	0	0	0	0	Iron reductase	nd
AA11	3 3	3	3	3	3	3	3 3	3	3	3	3		3	3 3		2	2	2		2	2	2	2	2		1	Lipopolysaccharide biosynthesis Lytic polysacchairde monooxygenases (LPMOs	
AA13 AA14	0 0						0 0					0	0		0			0		0		0			2	0 5	Lytic polysacchairde monooxygenases (LPMOs Lytic polysacchairde monooxygenases (LPMOs	
	2 2 13 1													2 1	1				0	0		0 4				0	Lytic polysacchairde monooxygenases (LPMOs Lytic polysacchairde monooxygenases (LPMOs	
AA1 AA12	9 9		_						9	_			7 (			4		5	6	5 0			4	2		1	Oxidoreductase Oxidoreductase	nd nd
AA2	2 1	1	2	2	2	3	1 2	2	2	3	2	2	3	2 3	1	3	1	1	2	1	3	1	2	1	1	1	Peroxidase	nd
CBM36 CBM4		0	1	0	0	0	0 0	0		0	0	0	0	0 0	0	0	0		0	0		0	0	0			NA NA	NA NA
CBM50 CBM63	0 0						2 3		5					0 (			0	0	0	0	0	0	0	0		0	NA NA	NA NA
GH30 GH43		5 5		4			5 4 5 5								2		0		1		0	0					NA NA	NA NA
GH5	13 1 0 (	1 10		11	11		10 9	10	9	_	10	_	9	3 7		3		5			4		0	3	3		NA NA	NA NA
PL22	0 1	1	1	1	1	1	1 1	0	0	0	0	0	0	) (	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA
PL3 PL4	0 0			0			0 0		0	0			0			1	0	0	0	0	0	0	0	0		0	NA NA	NA NA
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